



The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/5434.C1/KMT.

Respectfully submitted,



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Attorney for Applicant(s)

Substitute for form 1449A/PTO



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of

7

Application Number

Unknown

Filing Date

Herewith

First Named Inventor

Shang, et al.

Group Art Unit

1746

Examiner Name

Michail Kornakov

Attorney Docket Number

AMAT/5434.C1/DISPLAY/AKT/RKK

Submission Date

June 9, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-6,602,433	08/05/2003	Bhardwaj, et al.	
	A2	US-6,544,345	04/08/2003	Mayer, et al.	
	A3	US-6,500,356	12/31/2002	Goto, et al.	
	A4	US-6,387,288	05/14/2002	Bjorkman, et al.	
	A5	US-6,379,575	04/30/2002	Yin, et al.	
	A6	US-6,374,831	04/23/2002	Chandran, et al.	
	A7	US-6,366,366	04/02/2002	Nakamura	
	A8	US-6,366,346	04/2002	Nowak, et al.	
	A9	US-6,362,031	03/2002	Yamaguchi, et al.	
	A10	US-6,352,081	03/05/2002	Lu, et al.	
	A11	US-6,286,451	09/2001	Ishikawa, et al.	
	A12	US-6,271,148	08/07/2001	Kao, et al.	
	A13	US-6,264,852	07/24/2001	Herchen, et al.	
	A14	US-6,255,222	07/24/2001	Herchen, et al.	
	A15	US-6,209,483	04/2001	Dyer, Timothy Scott	
	A16	US-6,159,333	12/12/2000	Gupta, et al.	
	A17	US-6,125,859	10/03/2000	Kao, et al.	
	A18	US-6,117,793	09/2000	Tang	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	99/28538	06/19/1999	WO		
	B2	99/06611	02/11/1999	WO		
	B3	99/02754	01/21/1999	WIPO		
	B4	8060368	05/03/1996	Japan		
	B5	6080962	03/22/1994	Japan		

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of

7

Application Number

Unknown

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Herewith

First Named Inventor

Shang, et al.

Group Art Unit

1746

Examiner Name

Michail Kornakov

Attorney Docket Number

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		Number-Kind Code ² (if known)			
	A19	US-6,109,206	08/29/2000	Mayden, et al.	
	A20	US-6,051,505	04/18/2000	Chu, et al.	
	A21	US-6,029,718	02/29/2000	Jackson, et al.	
	A22	US-6,024,888	02/15/2000	Watanabe, et al.	
	A23	US-6,024,887	02/15/2000	Kuo, et al.	
	A24	US-6,020,035	02/01/2000	Gupta, et al.	
	A25	US-6,014,979	01/18/2000	Van Autryve, et al.	
	A26	US-6,007,733	12/28/1999	Jang, et al.	
	A27	US-5,980,769	11/09/1999	Yanagisawa, et al.	
	A28	US-5,970,376	10/19/1999	Chen	
	A29	US-5,958,801	09/1999	Langley	
	A30	US-5,935,874	08/10/1999	Kennard	
	A31	US-5,904,566	05/18/1999	Tao, et al.	
	A32	US-5,888,309	03/30/1999	Yu	
	A33	US-5,880,032	03/09/1999	Doi, et al.	
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	A35	US-5,872,061	02/16/1999	Lee, et al.	
	A36	US-5,849,639	12/15/1998	Molloy, et al.	

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	B6	6033054	02/08/1994	Japan		
	B7	5109673		Japan		
	B8	429809	06/04/1926	Germany		
	B9	3077786	04/03/1991	Japan		
	B10	1076355	02/14/2001	EP		

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	Unknown
				Filing Date	Herewith
				First Named Inventor	Shang, et al.
				Group Art Unit	1746
				Examiner Name	Michail Kornakov
				Attorney Docket Number	AMAT/5434.C1/DISPLAY/AKT/RKK
Sheet 3	of 7	Submission Date		June 9, 2004	

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
	A37	US-5,849,092	12/15/1998	Xi, et al.	
	A38	US-5,846,886	12/08/1998	Hattori, et al.	
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	A40	US-5,824,607	10/1998	Trow, et al.	
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	A43	US-5,779,866	07/1998	Tarancon, Gregorio	
	A44	US-5,762,813	06/09/1998	Takiyama, et al.	
	A45	US-5,756,400	05/26/1998	Ye, et al.	
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	A47	US-5,693,147	12/02/1997	Ward, et al.	
	A48	US-5,688,384	11/18/1997	Hodgeson, et al.	
	A49	US-5,685,916	11/11/1997	Ye, et al.	
	A50	US-5,679,215	10/21/1997	Barnes, et al.	
	A51	US-5,628,894	05/1997	Tarancon, Gregorio	
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	A53	US-5,597,495	01/28/1997	Keil, et al.	
	A54	US-5,569,151	10/1996	Karwacki, et al.	

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	B11	0965661	12/22/1999	EP		
	B12	0819780	01/21/1998	EP		
	B13	08017804	01/1996	JP		
	B14	0697467	02/21/1996	EP		
	B15	04311570	11/04/1992	JP		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4

of 7

Application Number

Unknown

Filing Date

Herewith

First Named Inventor

Shang, et al.

Group Art Unit

1746

Examiner Name

Michail Kornakov

Attorney Docket Number

AMAT/5434.C1/DISPLAY/AKT/RKK

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		Number-Kind Code ² (if known)			
	A55	US-5,565,038	10/15/1996	Ashley, Ethan	
	A56	US-5,549,802	08/27/1996	Guo, Xin S.	
	A57	US-5,534,107	07/1996	Gray, et al.	
	A58	US-5,449,411	09/1995	Fukuda, et al.	
	A59	US-5,425,842	06/1995	Zijlstra	
	A60	US-5,406,008	04/1995	Sievert, Allen	
	A61	US-5,405,491	04/11/1995	Shahvandi, et al.	
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	A69	US-5,129,958	07/1992	Nagashima, et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B16	00/52740	09/08/2000	WO		
	B17	00/51938	09/08/2000	WO		
	B19					
	B19					
	B20					

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 5

of

7

Application Number

Unknown

Filing Date

Herewith

First Named Inventor

Shang, et al.

Group Art Unit

1746

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	A73	US-4,818,326	04/04/1989	Liu, et al.	
	A74	US-4,498,953	02/1985	Cook, et al.	
	A75	US-4,312,718	01/26/1983	Watanabe, et al.	
	A76	US-4,176,018	11/27/1979	Faron	
	A77	US-4,125,443	11/14/1978	Grant, et al.	
	A78	US-3,976,447	08/24/1976	Merchant, et al.	
	A79	US-3,684,667	08/15/1972	Sayce	
	A80	US-3,146,179	08/25/1964	Davies	
	A81	US-2,879,212	03/24/1959	Hill, et al.	
	A82	2003/0192569	10/16/2003	Goto, et al.	
	A83	2003/0121796	07/03/2003	Siegele, et al.	
	A84	2003/0109144	06/12/2003	Goto, et al.	
	A85	2003/0098038	05/29/2003	Siegele, et al.	
	A86	2003/0010354	01/16/2003	Goto, et al.	
	A87	2002/0074013	06/20/2002	Yadav, et al.	
	A88				
	A89				

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	B23					

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	Unknown
				Filing Date	Herewith
				First Named Inventor	Shang, et al.
				Group Art Unit	1746
				Examiner Name	Michail Kornakov
				Attorney Docket Number	AMAT/5434.C1/DISPLAY/AKT/RKK
Sheet	6	of	7	Submission Date	June 9, 2004

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	C1	"Seventh Generation PECVD System Announced Overcoming Obstacles to Increase the Substrate Size" <i>AKT News Excerpt; Electronic Journal</i> , Nov., 2003.	
	C2	FOON, RUBY; "Kinetics of Gaseous Fluorine Reactions" <i>Prog. Reaction Kinetics</i> , 1975, Vol. 8, No. 2, pp. 81-160 Pergamon Press, Printed in Great Britain.	
	C3	European Search Report Dated October 10, 2003; Application No.: 01302849.3-2119	
	C4	Wang, X., et al, "Gas Phase Silicon Etching with Bromine Trifluoride," Transducers, 1997, Conference on Solid-State Sensors and Actuators	
	C5	International Sematech, "Motorola Evaluation of the Applied Science and Technology, Inc. (ASTeX) Astron Technology for Perfluorocompound (PFC) Emissions Reductions on the Applied Materials DxL Chemical Vapor Deposition (CVD) Chamber", April 16, 1999.	
	C6	Astron, "Reactive Gas Generators," MKS Instruments, Inc.	
	C7	Flamm, et al., "Reaction of Fluorine Atoms with SiO ₂ ," J. Appl. Phys., Oct. 1979 50 (10), 6211-13	
	C8	Mucha, et al., "Chemiluminescent Reaction of SiF ₂ with Fluorine and the Etching of Silicon by Atomic and Molecular Fluorine," J. Appl. Phys. 53(6) 4553-54	
	C9	Donnelly, et al., "Studies of chemiluminescence accompanying fluorine atom etching of silicon: J. Appl. Phys., 51 (190) (Oct 1980) 5273-76.	
	C10	Flamm, et al., "The reaction of fluorine atoms with silicon," J. Appl. Phys. 52 (5) (May 1981) 3633-39.	
	C11	Flamm, et al., "XeF ₂ and F-atom reactions with Si; their significance for plasma etching," Solid State Technology (April 1993) 117-121.	

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				Group Art Unit	1746
				Examiner Name	Michail Kornakov
				Attorney Docket Number	AMAT/5434.C1/DISPLAY/AKT/RKK
Sheet	7	of	7	Submission Date	June 9, 2004

NON PATENT LITERATURE DOCUMENTS

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	C12	Ibbotson, D.E., et al., "Comparison of XeF ₂ and F-Atom Reactions with Si and SiO ₂ ," March 28, 1984.	
	C13	Aliev, V.S., et al., "Development of Si (100) Surface Roughness at the Initial Stage of Etching in F ₂ and XeF ₂ Gases; Ellipsometric Study," Surface Science, 206-14 (1999).	
	C14	Habuka, H, et al., "Dominant overall chemical reaction in a chlorine trifluoride-silicon-nitrogen system at atmospheric pressure," Jpn. J.Appl. Phys., (1999) 38 6466-69.	
	C15	Larson, P.R., et al., "Atomic Fluorine Beam Etching of Silicon and Related Materials," J. Vac. Sci. Tech. B (1999).	

Examiner

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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